1	CLAIMS
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3	1. An exhaust gas cooler comprising:
4	an external tube arranged on a longitudinal axis
5	and having first and second end walls within said
6	tube, said external tube and end walls defining a
7	coolant chamber between said end walls and first and
8	second exhaust gas chambers outside said first and
9	second end walls respectively,
10	coolant inlet and outlet means communicating with
11	said coolant chamber,
12	a plurality of internal tubes extending from said
1.3	first end wall to said second end wall and arranged
14	such that the interior of each internal tube
15	communicates with said first and second exhaust gas
16	chambers, and
17	exhaust gas inlet and outlet means
18	communicating with said first and second exhaust gas
19	chambers respectively, whereby the exhaust gas inlet
20	and outlet means are each axially arranged on the
21	longitudinal axis of the external tube;
22	characterised in that the external tube has a
23	cross-sectional shape which has a height in the major
24	axis which is greater than its width in the minor axis
25	perpendicular to the major axis.
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27	2. An exhaust gas cooler according to Claim 1,
28	wherein the cross-sectional shape of the external tube
29	is substantially oval.
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- 1 3. An exhaust gas cooler according to Claim 1,
- wherein the cross-sectional shape of the external tube
- 3 comprises two semi-circles connected by common
- 4 straight line tangents parallel to the major axis.

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- 6 4. An exhaust gas cooler according to Claim 1,
- 7 wherein the internal tubes are circular in cross-
- 8 section.

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- 10 5. An exhaust gas cooler according to Claim 1,
- 11 wherein each internal tube is spaced by the same
- 12 spacing from its closest neighbouring internal tubes.

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- 14 6. An exhaust gas cooler according to claim 5,
- wherein the spacing between adjacent internal tubes is
- 16 less than 2 mm.

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- 18 7. An exhaust gas cooler according to claim 5,
- 19 wherein the spacing between adjacent internal tubes is
- between 10% and 20% of the diameter of the tubes.

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- 22 8. An exhaust gas cooler according to Claim 1,
- 23 wherein the exhaust gas cooler is made from stainless
- 24 steel.

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- 9. An exhaust gas cooler according to Claim 1,
- 27 wherein each of the exhaust gas inlet and outlet means
- comprises a flange plate adapted to connect to a
- 29 corresponding flange plate on a connecting exhaust

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tube.

pipe and having an aperture therein to permit the 1 through flow of exhaust gases. 2 3 10. An exhaust gas cooler according to Claim 1, 4 wherein the coolant inlet and outlet means comprise 5 6 tubular pipes adapted to be connected to a coolant 7 hose and extending substantially in the plane 8 containing the longitudinal axis of the external tube 9 and the major axis of the cross-section of the external tube. 10 11 An exhaust gas cooler according to Claim 10, 12 13 wherein the coolant inlet means is located adjacent to 14 one of the first and second end walls and the coolant outlet means is located adjacent to the other of the 15 first and second end walls. 16 17 An exhaust gas cooler according to Claim 10, 18 wherein the coolant inlet means is located at one side 19 of the external tube on the major axis and the coolant 20 outlet means is located on the diametrically opposite 21 22 side of the external tube on the major axis. 23 13. An exhaust gas cooler according to Claim 1, 24 wherein each of said first and second exhaust gas 25 chambers is further defined by a tapering cylindrical 26

member extending from said aperture to said external